

Annual Meeting 2018

Technology for an Ageing Society

October 8-10, 2018

BERLIN - GERMANY



PROGRAMME

Organisation Committee 2018

REBECCA WICZOREK

Technische Universität Berlin

DIETRICH MANZEY

Technische Universität Berlin

LINDA ONNASCH

Humboldt-Universität zu Berlin

KAREL BROOKHUIS

University of Groningen

ANTONELLA TOFFETTI

CRF

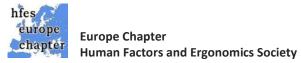
DICK DE WAARD

University of Groningen



Monday October 8th

08.30 - 09.15	REGISTRATION			
	Welcome coffee			
09.15 - 09.30	OPENING	Rebecca Wiczorek, Dietrich Manzey TU Berlin		
09.30 - 10.50	Session 1: HUMAN MACHINE INTERFACE - 1	Chair: Stefan Röttger		
		German Naval Medical Institute		
09.30 - 09.50	Designing for Automated Vehicle and Pedestrian	Ina Othersen (André Dietrich)		
	Communication: Perspectives on eHMIs from Older and	Volkswagen		
	Younger Persons			
09.50 - 10.10	The Possibility of Measuring Affects by Measuring Persons'	Friederice Schröder		
	Body Tilt	TU Berlin		
10.10 - 10.30	Cooperation through communication – New light technologies	Susann Winkler		
	for improved traffic climate	TU Braunschweig		
10.30 - 10.50	Improving cooperation in traffic – Novel HMI approaches to	Adrian Haar		
	enhance driver-driver interactions	Volkswagen		
10.50 - 11.20	POSTER SETUP Coffee break			
11.20 - 12.40	Session 2: AVIATION, COMFORT and SAFETY	Chair: Linda Onnasch		
	,	Humboldt Universität zu Berlin		
11.20 - 11.40	The Safety - Productivity Balance and its Association with	Nektarios Karanikas		
	Human Factors and Safety Awareness and Communication	Amsterdam University of Applied Sciences		
11.40 - 12.00	Wearable comfort and performance expectancy predict user	Kiran Maini Gerhardsson		
	acceptance of a sensor-based home lighting system	Lund University		
12.00 - 12.20	Sequential Human Redundancy	Dietlind Helene Cymek (Dietrich Manzey)		
	, , , , , , , , , , , , , , , , , , , ,	TU Berlin		
12.20 - 12.40	Teams Coping with Unknown Failures in Aerospace and	Damien L'Haridon		
	Operational Environments	ONERA		
12.40 12.40	Lunch			
12.40 - 13.40	Lunch			
		Chair: Ania Naumann		
13.40 - 15.00	Session 3: AUTOMATION - TRANSPORT - 1	Chair: Anja Naumann DLR		
	Session 3: AUTOMATION - TRANSPORT - 1			
13.40 - 15.00		DLR		
13.40 - 15.00	Session 3: AUTOMATION - TRANSPORT - 1 Should the urgency of visual-tactile takeover requests match	DLR Fabienne Roche		
13.40 - 15.00 13.40 - 14.00	Session 3: AUTOMATION - TRANSPORT - 1 Should the urgency of visual-tactile takeover requests match the criticality of takeover situations? Prediction of Take-Over Performance in Conditionally	DLR Fabienne Roche TU Berlin		
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Tuesday October 9th

09.00 - 10.40	Session 5: AGEING and HEALTH	Chair: District Manage	
09.00 - 10.40	Session 5: Adding and Health	Chair: Dietrich Manzey TU Berlin	
00.00.00.20	A		
09.00 - 09.20	A cognitive aid to support emergency response teams during	Stephan Huber	
00.2000.40	in-hospital cardiac arrest	Julius-Maximilians-Universität Würzburg	
09.20 - 09.40	Building a tremor compensating mouse driver	Matthias Wille	
20.40.40.00		RWTH Aachen	
09.40 - 10.00	Considering older adults throughout the development process -	Torben Volkmann (Michael Sengpiel)	
	The HCD+ approach	University of Lübeck	
10.00 - 10.20	Searching for ways to elicit 'soft' user requirements on assistive	Pamela Lindgren	
	technology	Chalmers University of Technology	
10.20 - 10.40	Comparison of a thermo-tactile, vibro-tactile and auditory	Rebecca Wiczorek	
	interface to improve hazard detection of older pedestrians	TU Berlin	
10.40 - 11.10	Coffee break		
11.10 - 12.30	Session 6: SURFACE TRANSPORTATION	Chair: Antonella Toffetti	
		Centro Ricerche Flat	
11.10 - 11.30	Measures for Improving the Detection of Motorcycles in	Ioana Koglbauer	
	Student Drivers	Graz University	
11.30 - 11.50	Short-term Effects of Unnecessary Collision Alarms on Driver	Christina Kaß	
11.00	Behaviour	Opel	
11.50 - 12.10	Towards an Error Tolerant HMI Approach for the compensation	Vitalij Sadovitch	
11.00 11.10	of Registration Errors in Augmented Reality Application	Volkswagen	
12.10 - 12.30	The influence of a passenger and meditation before driving on	Quentin Meteier	
12.10 12.50	driving behaviour and emotions – a simulator study	School of Engineering and Architecture of	
	arriving behaviour and emotions a simulator study	Fribourg	
12.30 - 13.30	Lunch	Though	
12.00			
13.30 - 14.50	Session 7: AUTOMATION	Chair: Stephen Fairclough	
		Liverpool John Moores University	
13.30 - 13.50	Contribution of Industry 4.0 to the emergence of a joint	Philippe Rauffet	
	cognitive and physical production system	Lab-STICC UMR CNRS	
13.50 - 14.10	Effects of automation support on prospective monitoring,	Linda Onnasch	
	situation awareness, and operators' role definition in a	Humboldt-Universität zu Berlin	
	complex supervisory control task		
14.10 - 14.30	Social Metaphors in Human-Automation Interaction Design	Greg A. Jamieson	
		University of Toronto	
14.30 - 14.50	Supporting supervisory control of safety-critical systems by	Marie-Christin Harre	
	optimizing visualizations on monitoring displays for fast and	OFFIS Institute for Information Technology	
	accurate perception		
14.50 - 15.20	Coffee break		
15.20 - 16.40	Session 8: VULNERABLE ROAD USERS	Chair: Rebecca Wiczorek	
		TU Berlin	
15.20 - 15.40	Should I Stay or Should I Go? Evaluating external HMI Concepts	Andre Dietrich	
	in Virtual Reality	TU München	
15.40 - 16.00	Evaluation of a Walking Frame Mounted Assistance System	Frederik Laubisch	
	Designed to Increase Safety for Older Pedestrians in Road	TU Berlin	
	Crossing Tasks		
16.00 - 16.20	Preferences of European cyclists towards active systems with	Federico Frabroni	
	audio-visual and with handlebar vibration warnings	University of Bologna	
16.20 -16.40	The influence of automated vehicles on pedestrian motor	Jean-Louis Honeine (Ebru Dogan)	
	behaviour	VEDECOM Institut	
16.40 - 16.45	KEYNOTE Introduction	Dietrich Manzey	
		TU Berlin	
16.45 - 17.30	KEYNOTE	Prof. Wendy Rogers	
	Robots to Support Successful Ageing: Potential and Challenges	University of Illinois Urbana-Champaign	
20.00	CONFERENCE DINNER		

Wednesday October 10th

09.30 - 10.50	Session 9: HUMAN MACHINE INTERFACE - 2	Chair: Denis Coelho	
		Universidade da Beira Interior	
09.30 - 09.50	The role of mental workload in determining the relation	Giovanni Serra (Francesc di Nocera)	
	between website complexity and usability: an eye-tracking	Sapienza University of Rome	
	study		
09.50 - 10.10	Effects of Traffic Situation on Secondary Task Performance and	Anna Pätzold	
	Workload	Opel	
10.10 - 10.30	How to use AR-information to benefit the driver in a navigation	Kassandra Bauerfeind	
	task? Investigation of the acceptance and the effectiveness of	Volkswagen	
	AR-information in a navigation task compared to a classic		
10.00 10.50	Head-up Display		
10.30 - 10.50	Examining perceptual performance on a 3D instrument cluster	Andre Dettmann	
40.50 44.45	0.50	TU Chemnitz	
10.50 - 11.15	Coffee break		
11.15 - 12.45	Session 10: AUTOMATION - TRANSPORT - 2	Chair: Karel Brookhuis	
		University of Groningen	
11.15 - 11.35	Design of a time-to-lane-crossing based haptic steering	Sjors Oudshoorn (Bastiaan Petermeijer)	
	guidance	Delft University of Technology	
11.35 - 11.55	Perceived Safety: A necessary precondition for successful	Jan Grippenkoven	
	autonomous mobility services	DLR	
11.55 - 12.15	Who is driving whom? Highly automated driving transitions	Ronja Schott	
	from manual to automation in reality and the impact of	TU Berlin	
	situation, personality and the driving experience		
12.15 - 12.35	The influence of drivers' mental models about automated	Gloria Poehler	
	vehicle guidance on transition behaviour in critical situations	Karlsruhe Institute of Technology	
12.35 - 12.45	BEST POSTER AWARD 2018	Chair Best Poster Committee	
	FARILY CAREER REST DADED AWARD 2040	Bistoish Manager	
	EARLY CAREER BEST PAPER AWARD 2018	Dietrich Manzey	
	CONFERENCE CLOSING		
12.45 - 14.00	Lunch		

POSTERS	AUTHOR	AFFILIATION
Virtual realities, mental abilities and the effect of ageing	Magnus Liebherr	University of Duisburg-Essen
Impact of Task Complexity on Driving a Gaze-Controlled Telerobot for Social Interaction	Guangtao Zhang	Technical University of Denmark
Parametric evaluation of sustained light muscular activity in product use	Denis A. Coelho	Universidade da Beira Interior
A Tactile Interface for Identification of Hazardous Situations During Operational Movement	Nuphar Katzman	Ben-Gurion University of the Negev
Wheelchair Motion Control Using Smooth Pursuit Eye Movement	Hong Gao	TU Berlin
How to achieve applicable user responses? – The design of feedback dialogues in the context of usability engineering	Synnöve Hochstein (Anne Goy)	TU Chemnitz
To change or not to change - that is the question: Detecting lane change signals for anticipatory highly automated driving	Katharina Simon	TU Chemnitz
Positioning of side-view cameras on passenger vehicles to aid rearward perception	Christoph Bernhard	Johannes Gutenberg- Universität Mainz
Expectations of automatic vehicle guidance in cooperative situation: Modelling with Naturalistic Decision Making	Jonas Imbsweiler	Karlsruhe Institute of Technology
Motion sickness in cars: a holistic approach of a design pattern for constructing in-car motion sickness studies	Adrian Brietzke	Volkswagen
The effect of time budget and driver assistance on manual takeover performance in a highly automated vehicle	Elsa Yousfi	VEDECOM Institut
Driver-Initiated Take-Over Behaviour in Highly Automated Driving	Sandra Epple	TU Berlin
Safe and Seamless Transfer of Control Authority	Davide Maggi	ITS Leeds
Visual inspection of baggage X-ray images: How do expertise and automation influence detection performance?	Alain Chavaillaz	University of Fribourg
Problem Solving in the Human-Machine-Interaction: Rethinking the Role of Spatial Working Memory	Katrin Linstedt	Karlsruhe Institute of Technologie
Using a Teamwork Metaphor for Operator Interaction with Procedural Automation	Gyrd Skraaning (Greg Jamieson)	OECD Halden
The use of 3DSSPP for motor vehicle accidents	Manon Limousis- Gayda	National Biomechanics Institute
Analysis of drivers' visual behaviour in road curves with different geometry	Nicola Bongiorno	University of Messina
Assessment of Scanning Behaviour Characteristic at Unsignalised Intersections for Driving Aptitude Diagnosis of Elderly Drivers	Hiroshi Yoshitake	University of Tokyo
Anticipation of Social Interaction with a Virtual Agent based on Eye Contact Duration	Alexandros Rouchitsas	Lulea University of Technology
Evaluation of external autonomous vehicle-to-pedestrian communication solutions: A field research	Yuan Liu	TU Berlin
Measuring cognitive load with a low-budget Arduino device	Nikolai Pärsch	Porsche
Prediction of recidivism to understand and prevent aberrant driving behaviours	Cándida Castro	University of Granada
Influences of system response delay on elderly participants' performance in a virtual memory training	Maria Wirzberger	TU Chemnitz

POSTER	AUTHOR	AFFILIATION
Supporting Collaborative Fault Diagnosis: Complete Information	Rica Bönsel	TU Dresden
Transfer or Strategic Hypothesis Testing?	Al!-I-	
From in- cabin driving to remote manual interventions: How task allocation changes with railway automation	Niels Brandenburger	DLR
Fidgeting as a sensory reinforcement strategy for overcoming	brandenburger	
boredom	Orlando Ricciardi	Sapienza University of Rome
Drive me natural: Design and evaluation of trajectories for highly		
automated driving maneuvers on rural roads	Patrick Roßner	TU Chemnitz
How to apply what we know about Human-Computer Trust to System		
Design: A Framework for Building Trustable Systems	Peter Moertl	Virtual Vehicle
Operator strategies in the food processing industry: Individual	Christina Gögel	TU Dresden
differences in handling machine faults	Christina Gogei	TO Dresdell
Developing a Pictorial System Usability Scale	Jürgen Baumgartner	University of Fribourg
Supporting user interaction with the range of electric buses in local public transport	Markus Gödker	Universität zu Lübeck
A Methodology for Redesigning Flight Training Using Augmented		
Reality	Ioana Koglbauer	Graz University of Technology
Investigating driver preferences for automation usage in different	Franziska Babel	Ulm University
driving scenarios		·
Inaccuracies in energy efficiency perception based on instantaneous consumption displays – Implications for interface design	Vivien Moll	University of Lübeck
Investigating the impact of adaptable alarm systems in younger and		
older adults on the example of a pedestrian assistance system	Anna Zirk	TU Berlin
Social stress in human-machines hybrid teams	Simon Thuillard	University of Fribourg
Human-Machine Interface to Support Speed Regulation	Frederik Schewe	TU Braunschweig
		_
Evaluation of biologically effective light in the vehicle interior	Michael Weng	TU Berlin
Motorcycle helmet use – comparing self-reported and observational data	Felix Siebert	TU Berlin
Influencing driver's route choice - how recalling traffic scenarios can		
shift decisions	Susanne Grüner	TU Braunschweig
The influence of new UX principles for inclusive UI design: How older		
people perceive Facebook compared to a senior-dedicated social	Romain Collaud	EPFL+ECAL Lab
media platform		
The use of telepresence robot to promote the social interaction of	Ying Jiang	TU Berlin
older adults: user needs and user experience	Tilig Jidlig	TO Berlin
Training for Smooth Pursuit Eye Movements based Text Speller	Zhe Zeng	TU Berlin
Eye-tracking as a field research tool during Helicopter Operations	Sashidharan	Norwegian University of
	Komandur	Science & Technology
A regional UK project for implementation of the Human Factors	Samuel Stefan	Wessex Deanery
courses for Surgical Specialities trainees	Vatharina	·
Expert evaluation of automated driving HMI – does a checklist-based method work?	Katharina Wiedemann	Würzburger Institut für Verkehrswissenschaften
Using Receiver Operating Characteristic (ROC) Analysis to Measure	vvieuciliailii	
Human Performance in Detection, Localization and Classification of	Olinda Rodas	Space and Naval Warfare
Sonar Images		Systems Center Pacific
Developing an algorithm to incorporate Human Factors and		
Ergonomics (HFE) findings into public procurement of medical devices	Laura Herrero	EValTec, IDIVAL
in Spain		
Strategic support in Infusion Pumps' implementation: Improving	Ignasi Maspons	EValTec, IDIVAL
safety and self-efficacy with Human Factors-based training	O	